

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1000 Natomas

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	18.28	03/17/2017 03/17/2017	Sterling York

LM Start		Rating **	A	Issue No.	18
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD1000_01_f_2014_18				
Comment Code					
Inspector Comment					
RD 1000 has a copy of the O&M manuals at their district office.					

No Photos

LM Start		Rating **	A	Issue No.	24
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD1000_01_f_2014_24				
Comment Code					
Inspector Comment					
RD 1000 has flood fight supplies on hand at their equipment yard located near Unit 4.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1000 Natomas

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	18.28	03/17/2017 03/17/2017	Sterling York

LM Start		Rating **	A	Issue No.	39
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_RD1000_01_f_2014_39				
Comment Code					
Inspector Comment					
RD 1000 employees attend the DWR flood fight class held at CalExpo annually.					

No Photos

LM Start	0.01	Rating **	A/W	Issue No.	17
LM End	12.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.780399 °	38.649214 °	
			-121.603230 °	-121.569931 °	
DWR ID	DWR_RD1000_01_s_2017_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual grass are starting to get a little to tall, the RD has started their spraying, Spring 2017.					

Photo 1 of 1 : SP_2017_RD1000_31_17_20170327_00048.jpg



View of annual grasses land side, that need to be maintained. The RD has started their spraying for spring of 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1000 Natomas

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	18.28	03/17/2017 03/17/2017	Sterling York

LM Start	0.01	Rating **	A/W	Issue No.	64
LM End	12.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.780399 °	38.649234 °
				-121.603298 °	-121.569942 °
DWR ID	DWR_RD1000_01_s_2017_64				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual grass are starting to get a little to tall, the RD has started their spraying, Spring 2017.					

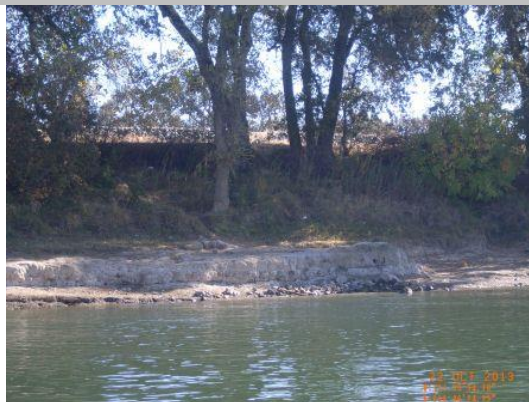
Photo 1 of 1 : SP_2017_RD1000_31_64_20170327_00049.jpg



View of annual grasses water side, that need to be maintained. The RD has started their spraying for spring of 2017.

LM Start	0.48	Rating **	M	Issue No.	3
LM End	0.61	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.774507 °	38.772921 °
				-121.598865 °	-121.597788 °
DWR ID	DWR_RD1000_01_s_2016_3				
Comment Code					
Inspector Comment					
1997 - Very cohesive toe. 2005 - Site was staked and rock was stockpiled along the top of the bank. 2010 - New adjacent levee under construction. 2011 - New animal burrow. 2015: No observed changes. [2015 Site ID: SAC_78-3_L]					

Photo 1 of 1 : SP_2017_RD1000_31_3_20170316_00002.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1000 Natomas

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	18.28	03/17/2017 03/17/2017	Sterling York

LM Start	14.25	Rating **	M	Issue No.	57
LM End	14.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.624446°	38.624073°	
			-121.560337°	-121.560346°	
DWR ID	DWR_RD1000_01_s_2015_57				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017


Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 American River	Right	2.32	03/17/2017 03/17/2017	Sterling York

Photo 1 of 1 : SP_2017_RD1000_32_5_20170327_00007.jpg



View of annual grass land side, that are starting to get to tall, the RD has started their spraying, Spring 2017.

Photo 1 of 1 : SP_2017_RD1000_32_6_20170327_00008.jpg



View of annual grass water side, that are starting to get to tall, the RD has started their spraying, Spring 2017.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1000 Natomas

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 American River	Right	2.32	03/17/2017 03/17/2017	Sterling York

LM Start	1.06	Rating **	A/W	Issue No.	4
LM End	1.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.608536 °	38.608063 °
				-121.492653 °	-121.484951 °
DWR ID	DWR_RD1000_02_f_2016_4				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trees have been trimmed high enough to allow visibility down to the levee toe. Spring 2017.					

Photo 1 of 1 : SP_2017_RD1000_32_4_20170316_00006.jpg



View looking downstream landside of trees that need to be trimmed. Fall 2016.

LM Start	1.54	Rating **	A/W	Issue No.	2
LM End	1.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.607978 °	38.607713 °
				-121.483858 °	-121.482524 °
DWR ID	DWR_RD1000_02_s_2014_2				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trees have been trimmed high enough to allow visibility down to the levee toe. Spring 2017.					

Photo 1 of 1 : SP_2017_RD1000_32_2_20170316_00004.jpg



View of the trees on the landside levee slope. Small trees 4" in diameter at chest height should be removed before they get to big.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1000 Natomas

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 American River	Right	2.32	03/17/2017 03/17/2017	Sterling York

LM Start	1.79	Rating **	A/W	Issue No.	3
LM End	2.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.606566 °	38.605012 °
				-121.479695 °	-121.474813 °
DWR ID	DWR_RD1000_02_f_2016_3				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trees have been trimmed high enough to allow visibility over 20 feet down the water side slope. Spring 2017.					

Photo 1 of 1 : SP_2017_RD1000_32_3_20170316_00005.jpg



View looking upstream waterside of trees that need to be trimmed. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1000 Natomas

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Natomas East Canal	Right	16.93	03/17/2017 03/17/2017	Sterling York

LM Start	0.00	Rating **	M	Issue No.	6
LM End	16.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.606034 °	38.820669 °
				-121.470572 °	-121.543751 °
DWR ID	DWR_RD1000_03_s_2017_6				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual grass are starting to get a little to tall, the RD has started their spraying, Spring 2017.					

Photo 1 of 1 : SP_2017_RD1000_33_6_20170327_00017.jpg



View of annual grass land side, that are starting to get a little to tall, the RD has started their spraying, Spring 2017.

LM Start	0.00	Rating **	M	Issue No.	11
LM End	16.93	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.606034 °	38.820745 °
				-121.470572 °	-121.543700 °
DWR ID	DWR_RD1000_03_s_2017_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual grass are starting to get a little to tall, the RD has started their spraying, Spring 2017.					

Photo 1 of 1 : SP_2017_RD1000_33_11_20170327_00018.jpg



View of annual grass water side, that are starting to get a little to tall, the RD has started their spraying, Spring 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1000 Natomas

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Natomas East Canal	Right	16.93	03/17/2017 03/17/2017	Sterling York

LM Start	0.23	Rating **	A/W	Issue No.	20
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.608814 °	38.608814 °
				-121.468469 °	-121.468469 °
DWR ID	DWR_RD1000_03_f_2015_20				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
There is a foot path up the slope of the levee but it has not damaged the integrity of the levee enough to warrant an M rating. This path should be monitored and maintained to avoid a future maintenance issue.					

No Photos

LM Start	0.38	Rating **	M	Issue No.	19
LM End	0.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.610854 °	38.610854 °
				-121.467961 °	-121.467961 °
DWR ID	DWR_RD1000_03_f_2015_19				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Bait injection into rodent hole for control. No sign of rodents Fall 2016.					

Photo 1 of 2 : SP_2017_RD1000_33_19_20170316_00013.jpg



View of the rodent holes on the waterside levee slope. Fall 2015. Bait injection into rodent hole for control, no sign of rodents Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1000 Natomas

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Natomas East Canal	Right	16.93	03/17/2017 03/17/2017	Sterling York

LM Start	0.38	Rating **	M	Issue No.	19 (cont)	
LM End	0.38	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			38.610854 °		38.610854 °
				-121.467961 °		-121.467961 °
DWR ID	DWR_RD1000_03_f_2015_19					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Bait injection into rodent hole for control. No sign of rodents Fall 2016.						

Photo 2 of 2 : SP_2017_RD1000_33_19_20170316_00014.jpg



View of the rodent on the waterside levee slope ready to retreat into the den, penetrating the levee prism.

LM Start	1.44	Rating **	A/W	Issue No.	18
LM End	1.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.626111 °	38.626111 °
				-121.470575 °	-121.470575 °
DWR ID	DWR_RD1000_03_f_2015_18				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
There is a foot path up the slope of the levee but it has not damaged the integrity of the levee enough to warrant an M rating. This path should be monitored and maintained to avoid a future maintenance issue.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1000 Natomas

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Natomas East Canal	Right	16.93	03/17/2017 03/17/2017	Sterling York

LM Start	2.36	Rating **	M	Issue No.	15
LM End	2.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.639326 °	38.639326 °
				-121.473107 °	-121.473107 °
DWR ID	DWR_RD1000_03_f_2015_15				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD1000_33_15_20170316_00011.jpg



View of the landside levee slope damaged by foot traffic.

LM Start	2.74	Rating **	A/W	Issue No.	16
LM End	2.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.644796 °	38.644796 °
				-121.474135 °	-121.474135 °
DWR ID	DWR_RD1000_03_f_2015_16				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
There is a foot path up the slope of the levee but it has not damaged the integrity of the levee enough to warrant an M rating. This path should be monitored and maintained to avoid a future maintenance issue.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1000 Natomas

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Natomas East Canal	Right	16.93	03/17/2017 03/17/2017	Sterling York

LM Start	4.78	Rating **	M	Issue No.	1
LM End	4.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.672913 °	38.673685 °
				-121.481364 °	-121.483115 °
DWR ID	DWR_RD1000_03_f_2013_1				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several bait traps line the levee toe, no sign of rodents.					

Photo 1 of 2 : SP_2017_RD1000_33_1_20170316_00001.jpg



This photo was taken from the levee crown looking down the landward slope at a squirrel poking its head out of a hole. Fall 2014.

LM Start	4.78	Rating **	M	Issue No.	1 (cont)
LM End	4.89	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2017_RD1000_33_1_20170316_00002.jpg



Updated view taken facing the landside looking upstream at bait trap. Rodent holes have been filled and no new activity was observed. Several bait traps at landside levee toe. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
---	--	--	--	--	--

